

Name: \_\_\_\_\_

**pb1106: Factoring when  $a = \text{prime}$  (v10)**

1. Factor the expression  $3x^2 + 11x - 42$

$$(3x - 7)(x + 6)$$

2. Factor the expression  $5x^2 - 42x + 16$

$$(5x - 2)(x - 8)$$

3. Factor the expression  $11x^2 + 101x + 18$

$$(11x + 2)(x + 9)$$

4. Factor the expression  $5x^2 + 38x - 63$

$$(5x - 7)(x + 9)$$

5. Factor the expression  $11x^2 + 9x - 2$

$$(11x - 2)(x + 1)$$

6. Factor the expression  $2x^2 - 17x + 8$

$$(2x - 1)(x - 8)$$

7. Factor the expression  $5x^2 - 22x + 21$

$$(5x - 7)(x - 3)$$

8. Factor the expression  $5x^2 + 24x + 27$

$$(5x + 9)(x + 3)$$

9. Factor the expression  $7x^2 - 58x - 45$

$$(7x + 5)(x - 9)$$

10. Factor the expression  $5x^2 + 13x - 28$

$$(5x - 7)(x + 4)$$